

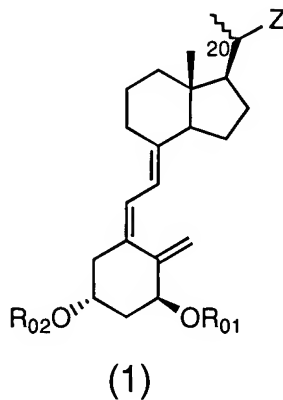
**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

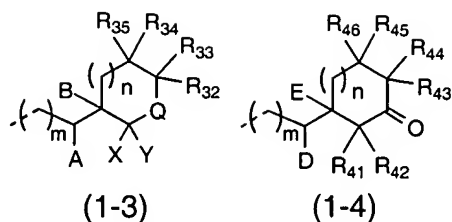
1-44. (Canceled)

45. (currently amended): A vitamin D<sub>3</sub> compound expressed by the following formula (1) or pharmaceutically permissible solvates thereof,



wherein, R<sub>01</sub> and R<sub>02</sub> are each independently a hydrogen atom, a trimethylsilyl group, a triethylsilyl group, a t-butyldimethylsilyl group, an acetyl group, a methoxymethyl group or a tetrahydro-4H-pyran-2-yl group;

Z is one out of the following formulae (1-3) and (1-4),



in the above formulae (1-3) and (1-4),

m is an integer of 0 to 2;

n is an integer of 0 to 2;

Q expresses >C(-F)-R<sub>31</sub> or >N-R<sub>31</sub>, and herein R<sub>31</sub> is a hydrogen atom, a hydroxyl group, a trifluoromethyl group, a pentafluoroethyl group, a C<sub>2</sub>-C<sub>5</sub> acyloxy group, a C<sub>1</sub>-C<sub>4</sub> alkyloxy group or a C<sub>1</sub>-C<sub>4</sub> alkyl group which may be substituted with a hydroxy group, a C<sub>2</sub>-C<sub>5</sub> acyloxy group or a C<sub>1</sub>-C<sub>4</sub> alkyloxy group;

R<sub>32</sub>, R<sub>33</sub>, R<sub>34</sub> and R<sub>35</sub> are identical to or different from each other, and they are a hydrogen atom, a hydroxyl group, a C<sub>1</sub>-C<sub>4</sub> alkyl group or a C<sub>2</sub>-C<sub>5</sub> acyloxy group;

A and B are identical to or different from each other, and they express a hydrogen atom or a hydroxyl group, or together express a single bond and form a double bond in cooperation with the single bond ~~already shown in the formula~~ formed between the carbon atoms to which each of A and B is attached, respectively;

X and Y together express a carbonyl group in cooperation with the carbon atom to which they are bonded, one of them is a hydrogen atom and the other is a hydroxyl group, or one of them is a hydrogen atom and the other is a C<sub>2</sub>-C<sub>5</sub> acyloxy group;

R<sub>41</sub> and R<sub>42</sub> are identical to or different from each other, and they express a hydrogen atom, a trifluoromethyl group, a pentafluoroethyl group, a C<sub>2</sub>-C<sub>5</sub> acyloxy group, a C<sub>1</sub>-C<sub>4</sub> alkyloxy group or a C<sub>1</sub>-C<sub>4</sub> alkyl group which may be substituted with a hydroxyl group, a C<sub>2</sub>-C<sub>5</sub> acyloxy group or a C<sub>1</sub>-C<sub>4</sub> alkyloxy group, or both the members together express a C<sub>1</sub>-C<sub>5</sub> alkylidene group, or they express a C<sub>3</sub>-C<sub>6</sub> cyclic alkyl group in cooperation with the carbon atom to which they are bonded;

R<sub>43</sub> and R<sub>44</sub> are identical to or different from each other, and they express a hydrogen atom, a trifluoromethyl group, a pentafluoroethyl group, a C<sub>2</sub>-C<sub>5</sub> acyloxy group, a C<sub>1</sub>-C<sub>4</sub> alkyloxy group or a C<sub>1</sub>-C<sub>4</sub> alkyl group which may be substituted with a hydroxyl group, a C<sub>2</sub>-C<sub>5</sub> acyloxy group or a C<sub>1</sub>-C<sub>4</sub> alkyloxy group, or both the members together express a C<sub>1</sub>-C<sub>5</sub> alkylidene group, or express a C<sub>3</sub>-C<sub>6</sub> cyclic alkyl group in cooperation with the carbon atom to which they are bonded;

R<sub>45</sub> and R<sub>46</sub> are identical to or different from each other, and they express a hydrogen atom, a hydroxyl group, a trifluoromethyl group, a pentafluoroethyl group, a C<sub>2</sub>-C<sub>5</sub> acyloxy group, a C<sub>1</sub>-C<sub>4</sub> alkyloxy group or a C<sub>1</sub>-C<sub>4</sub> alkyl group which may be substituted with a hydroxyl group, a C<sub>2</sub>-C<sub>5</sub> acyloxy group or a C<sub>1</sub>-C<sub>4</sub> alkyloxy group;

D and E express each a hydrogen atom, D is a hydroxy group and E expresses a hydrogen atom, D and E together express a single bond and express a double bond in cooperation with the single bond ~~already shown in the formula~~ formed between the carbon atoms to which each of D and E is attached, respectively, or E and R<sub>41</sub> together express a single bond and express a double bond in cooperation with the single bond ~~already shown in the formula~~ formed between the

carbon atoms to which each of E and R<sub>41</sub> is attached, respectively, wherein D expresses a hydrogen atom or a hydroxy group; and R<sub>42</sub> expresses a hydrogen atom, a hydroxyl group, a trifluoromethyl group, a pentafluoroethyl group, a C<sub>2</sub>-C<sub>5</sub> acyloxy group, a C<sub>1</sub>-C<sub>4</sub> alkyloxy group or a C<sub>1</sub>-C<sub>4</sub> alkyl group which may be substituted with a hydroxyl group, a C<sub>2</sub>-C<sub>5</sub> acyloxy group or a C<sub>1</sub>-C<sub>4</sub> alkyloxy group,

with the proviso that the following compound (a) is excluded,

(a) a compound in which the groups of one combination out of R<sub>32</sub> and R<sub>33</sub>, R<sub>34</sub> and R<sub>35</sub>, and R<sub>45</sub> and R<sub>46</sub> are both hydroxy groups, both alkyloxy groups, or a hydroxy group and an alkyloxy group or where R<sub>41</sub> and R<sub>42</sub>, R<sub>43</sub> and R<sub>44</sub> are both alkyloxy groups.

46. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in Claim 45, wherein, in the ~~above~~-formula (1), Z is (1-3).

47. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in Claim 45, wherein, in the ~~above~~-formula (1), Z is (1-4).

48. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in one out of Claims 45, 46 ~~and-or~~ 47, wherein, in the ~~above~~-formula (1), R<sub>01</sub> and R<sub>02</sub> are both hydrogen atoms.

49. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in one out of Claims 45, 46 ~~and-or~~ 47, wherein, in the ~~above~~-formula (1), m is 0 or 1.

50. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in one out of Claims 45, 46 ~~and or~~ 47, wherein, in the ~~above~~-formula (1), n is 0 or 1.

51. (Previously Presented): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in Claim 46, wherein, in the ~~above~~-formula (1), Q is > C(-F)-R<sub>31</sub>.

52. (currently amended): A vitamin D<sub>3</sub> ~~derivative compound~~ or a pharmaceutically permissible solvate thereof described in Claim 46, wherein, in the ~~above~~-formula (1), Q is > N-R<sub>31</sub>.

53. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in Claim 46, wherein, in the ~~above~~-formula (1), R<sub>31</sub> is a hydrogen atom, a hydroxyl group or a C<sub>1</sub>-C<sub>4</sub> alkyl group which may be substituted with a hydroxy group, a C<sub>2</sub>-C<sub>5</sub> acyloxy group or a C<sub>1</sub>-C<sub>4</sub> alkyloxy group.

54. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in Claim 46, wherein, in the ~~above~~-formula (1), R<sub>32</sub>, R<sub>33</sub>, R<sub>34</sub> and R<sub>35</sub> are each a hydrogen atom.

55. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in Claim 46, wherein, in the ~~above~~-formula (1), A and B are both hydrogen atoms, A is a hydroxyl group and B is a hydrogen atom, or A and B together express a single bond and form a double bond in cooperation with the single bond ~~already shown in the formula~~ formed between the carbon atoms to which each of A and B is attached, respectively.

56. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in Claim 46, wherein, in the ~~above~~ formula (1), X and Y together express a carbonyl group in cooperation with the carbon atom to which they are bonded.

57. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in Claim 47, wherein, in the ~~above~~ formula (1), R<sub>41</sub> and R<sub>42</sub> are both hydrogen atoms or together express a methylene group.

58. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in Claim 47, wherein, in the ~~above~~ formula (1), R<sub>43</sub> and R<sub>44</sub> are both hydrogen atoms or together express a methylene group.

59. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in Claim 47, wherein, in the ~~above~~ formula (1), R<sub>45</sub> and R<sub>46</sub> are both hydrogen atoms.

60. (currently amended): A vitamin D<sub>3</sub> compound or a pharmaceutically permissible solvate thereof described in Claim 47, wherein, in the above formula (1), D and E are both hydrogen atoms, D and E together express a single bond and form a double bond in cooperation with the single bond ~~already shown in the formula~~formed between the carbon atoms to which each of D and E is attached, respectively, or D is a hydrogen atom and E and R<sub>41</sub> together express a single bond and express a double bond in cooperation with the single bond ~~already shown in the formula~~formed between the carbon atoms to which each of E and R<sub>41</sub> is attached, respectively.

AMENDMENT UNDER 37 C.F.R §1.111  
U.S. APPLN. 10/035,251

ATTY DKT NO.: Q67009

61. (currently amended): A pharmaceutical composition ~~composed of~~comprising a vitamin D<sub>3</sub> compound or pharmaceutically permissible solvate thereof described in claim 45 and a pharmaceutically permissible carrier.

Claims 62 -69 (Canceled).